

**EUROPEAN AND MEDITERRANEAN PLANT PROTECTION ORGANIZATION**  
**ORGANISATION EUROPEENNE ET MEDITERRANEENNE POUR LA PROTECTION DES PLANTES**  
**Summary sheet of validation data for a diagnostic test**

The EPPO Standard PM 7/98 *Specific requirements for laboratories preparing accreditation for a plant pest diagnostic activity* describes how validation should be conducted. It also includes definitions of performance criteria.

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| <b>Laboratory contact details</b>                                      | Netherlands Institute for Vectors, Invasive plants and Plant health<br>P.O. Box 9102, 6700 HC Wageningen, Netherlands  |
| <b>Short description of the test</b>                                   | Validation of the MALDI-TOF MS test for the identification of <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> and <i>X. oryzae</i> pv. <i>oryzicola</i>                                    |
| <b>Date, reference of the validation report</b>                        | 2023-09-27 - BAC-2022-02   |
| <b>Validation process according to EPPO Standard PM7/98?</b>           | yes  |
| <b>Is the lab accredited for this test?</b>                            | no   |
| <b>Was the validated data generated in the framework of a project?</b> | no   |
| <b>Description of the test</b>   |  |
| <b>Organism(s)</b>   | <i>Xanthomonas oryzae</i> pv. <i>oryzicola</i> (XANTTO)<br><i>Xanthomonas oryzae</i> pv. <i>oryzae</i> (XANTOR)  |
| <b>Detection / identification</b>                                      | identification   |
| <b>Method(s)</b>   | MALDI-TOF  |
| <b>Method: MALDI-TOF</b>   |  |
| <b>Reference of the test description</b>                               |  |
| <b>As or adapted from an EPPO diagnostic protocol</b>                  | no   |
| <b>As or adapted from an IPPC diagnostic protocol</b>                  | no   |
| <b>Other information</b>   |  |
| <b>Other details on the test</b>                                       | MALDI-TOF MS analysis and the creation of MSP's were performed according to the manufacturers' manual. The subtyping method was also performed according to the manufacturers' manual. |
| <b>Performance Criteria :</b>  |  |
| <b>Organism 1.:</b>  | <b><i>Xanthomonas oryzae</i> pv. <i>oryzicola</i>(XANTTO)</b>  |
| <b>Analytical specificity - inclusivity</b>                            |  |
| <b>Number of strains/populations of target organisms tested</b>        | 11 isolates of <i>Xanthomonas oryzae</i> pv. <i>oryzicola</i>  |

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|---|---|
| <b>Specificity value</b>  | 100% (11 out of 11 were identified correctly)   |
| <b>Analytical specificity - exclusivity</b>                     |   |
| <b>Number of non-target organisms tested</b>                    | Xanthomonas citri pv. malvacearum, Xanthomonas vasicola pv. holcicola, Xanthomonas axonopodis pv. begoniae, Xanthomonas cassavae, Xanthomonas pisi, Xanthomonas citri pv. citri, Acidovorax avenae subsp. avenae , Acidovorax avenae subsp. avenae , Burkholderia gladioli, Burkholderia glumae , Burkholderia plantarii , Dickeya chrysanthemi, Pantoea agglomerans, Pseudomonas fuscovaginae , Pseudomonas syringae pv. oryzae , Pseudomonas syringae pv. syringae. |
| <b>Specificity value</b>  | 100 % (15 non-target isolates out of 15 were not identified as XANTTO)  |
| <b>Organism 2.:</b>   | <b>Xanthomonas oryzae pv. oryzae(XANTOR)</b>  |
| <b>Analytical specificity - inclusivity</b>                     |   |
| <b>Number of strains/populations of target organisms tested</b> | 18 isolates of Xanthomonas oryzae pv. oryzae were tested.   |
| <b>Specificity value</b>  | 100% (18 out of 18 isolates were identified correctly)  |
| <b>Analytical specificity - exclusivity</b>                     |   |
| <b>Number of non-target organisms tested</b>                    | Xanthomonas citri pv. malvacearum, Xanthomonas vasicola pv. holcicola, Xanthomonas axonopodis pv. begoniae, Xanthomonas cassavae, Xanthomonas pisi, Xanthomonas citri pv. citri, Acidovorax avenae subsp. avenae , Acidovorax avenae subsp. avenae , Burkholderia gladioli, Burkholderia glumae , Burkholderia plantarii , Dickeya chrysanthemi, Pantoea agglomerans, Pseudomonas fuscovaginae , Pseudomonas syringae pv. oryzae , Pseudomonas syringae pv. syringae. |
| <b>Specificity value</b>  | 100% (15 non-target isolates out of 15 were not identified as XANTOR)   |
| <b>Test performance study</b>                                   |   |
| <b>Test performance study?</b>                                  | no  |
| The following complementary files are available online:         | <ul style="list-style-type: none"> <li>• <a href="#">Validation MALDI-TOF MS X. oryzae</a></li> </ul>   |

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